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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/656,903	09/05/2003		Eugen Kloos	LZ-78	1549	
7:	7590 05/09/2005			EXAM	EXAMINER	
Friedrich Kue	ffner		KING, BRADLEY T			
Suite 910 317 Madison Avenue				ART UNIT	PAPER NUMBER	
New York, NY	New York, NY 10017			3683		
			DATE MAILED: 05/09/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/656,903	KLOOS ET AL.					
Office Action Summary	Examiner	Art Unit					
	Bradley T King	3683					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(\$) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ Responsive to communication(s) filed on <u>03 Ja</u>	anuary 2005.						
<u> </u>	action is non-final.						
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1 and 4-15</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1 and 4-15</u> is/are rejected.	·						
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	er.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152) Paper No(s)/Mail Date							

Application/Control Number: 10/656,903

Art Unit: 3683

### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 4-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Evans (US# 4391355) in view of Rinker et al (US# 4220223).

Evans discloses a disc brake including: a brake disk having a preferred rotational direction; a first brake pad 42 having a first center of gravity on a first side of the brake disk 14; a second brake pad 44 having a second center of gravity on a second side of the brake disk; and a caliper 19 for transmitting braking forces produced by the second brake pad to the first side of the brake disk, wherein the second center of gravity is offset from the first center of gravity by a predetermined distance **d** in the direction toward the side of the brake disk which trails when the disk is rotating in a preferred rotational direction. See figures 5 and 17. Evans lacks the explicit disclosure of the center axis of the clamping device extending through the center of gravity of the first brake pad. The disclosure of Evans focuses on providing symmetric loading of the brake pads, compensating for a twisting moment of the caliper by displacing the centers in the direction of rotation of the disc. Rinker et al disclose a similar braking system and further teach that the center of gravity must correspond to the center of

pressure for the pad to be uniformly loaded. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the center of gravity of the inboard pad of Evans correspond with the center of pressure of the clamping device as taught by Rinker et al to ensure even loading of the pads, thereby improving brake performance and wear.

Regarding claim 4, see figure 17.

Regarding claim 5, see figure 5. The first pad 42 and the second pad 44 are offset.

Regarding claims 6-7, see figures 5, 13 and 17. Brake pad 17 and 23 have different configurations and weight distributions.

Regarding claim 8, figure 17 shows a wedge shaped cross-section as broadly defined by the claim.

Regarding claims 9-11, see figures 1 and 5. The rectangular opening is a parallelogram.

Regarding claims 12-13, see figures 1 or 2. Elements (19, 20, 23, 28) are all plate shaped bracket parts integral with an axle part as broadly defined by the claims.

Regarding claim 14, Evans shows a sliding caliper.

Regarding claim 15, the brake is capable of use on commercial vehicles.

## Response to Arguments

Applicant's arguments filed 01/03/2005 have been fully considered but they are not persuasive. Applicant's arguments are noted, however, the features discussed are not required by the claims. It is maintained that the rejections are proper.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley T King whose telephone number is (571) 272-7117. The examiner can normally be reached on 11:00-7:30 M-F.

months 5/2/05

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor can be reached on (571) 272-7095. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**BTK**